IN THE CLAIMS

1 (Original). An apparatus comprising:

a filter manager to build a filter chain corresponding to a wireless medium;

a filter chain to process the wireless medium.

2 (Original). An apparatus as defined in Claim 1, wherein the filter chain comprises a plurality of filter drivers.

3 (Original). An apparatus as defined in Claim 2, wherein filter drivers implement media access control primitives.

4 (Original). An apparatus as defined in Claim 1, wherein the filter chain comprises a filter driver to implement an encryption/decryption function for the wireless medium.

5 (Original). An apparatus as defined in Claim 1, wherein the filter chain comprises a filter driver to implement a fragmentation/assembly function for the wireless medium.

6 (Currently Amended). An apparatus as defined in Claim 2, wherein the filter chain [[in]] is operable is a run mode, a stop mode, and a pause mode.

7 (Original). An apparatus as defined in Claim 2, wherein the filter manager is operable to dynamically remove filter drivers from, and insert filter drivers into, the filter chain.

8 (Original). An apparatus as defined in Claim 7, wherein the filter drivers implement media access control primitives.

9 (Original). An apparatus as defined in Claim 7, wherein the filter chain is operable in a run mode, a stop mode, and a pause mode.

10 (Original). An apparatus comprising:

a first filter chain to process a first wireless medium;

a second filter chain to process a second wireless medium; and

a filter manager to build the first filter chain and to build the second filter chain.

11 (Original). An apparatus as defined in Claim 10, further comprising:

a device driver to operate a hardware device.

12 (Original). An apparatus as defined in Claim 11, wherein operation of the device driver is substantially restricted to implementation of an interface to the hardware device and control of hardware device operation.

13 (Original). An apparatus as defined in Claim 10, wherein the first filter chain comprises a first plurality of filter drivers to process the first wireless medium and the second filter chain comprises a second plurality of filter drivers to process the second wireless medium.

14 (Original). An apparatus as defined in Claim 13, wherein the first plurality of filter drivers implement media access control primitives corresponding to the first wireless medium and the second plurality of filter drivers implement media access control primitives corresponding to the second wireless medium.

15 (Original). An apparatus as defined in Claim 14, wherein the first plurality of filter drivers comprises a filter driver to implement encryption/decryption function for the first wireless medium and the second plurality of filter drivers comprises a filter driver to implement encryption/decryption for the second wireless medium.

16 (Original). An apparatus as defined in Claim 14, wherein the first chain of filter drivers comprises a filter driver to implement fragmentation/assembling function for the first wireless medium and the second chain of filter drivers comprises a filter driver to implement fragmentation/assembling for the second wireless medium.

17 (Original). An apparatus as defined in Claim 13, wherein the filter chains are operable in a run mode, a stop mode and a pause mode.

18 (Original). A system comprising:

a media access control driver comprising:

a first filter chain to process a first wireless medium;

a second filter chain to process a second wireless medium; and

a filter manager to build at least the first filter chain and to build the second filter chain; and

an antenna coupled to the media access control driver.

19 (Original). A system as defined in Claim 18, further comprising:

a device driver, wherein operation of the device driver is substantially restricted to implementation of a hardware interface and provision of hardware control.

20 (Original). A system as defined in Claim 18, wherein the first filter chain comprises a first plurality of filter drivers to process the first wireless medium and the second filter chain comprises a second plurality of filter drivers to process the second wireless medium.

21 (Original). A system as defined in Claim 20, wherein the first plurality of filter drivers implement media access control primitives corresponding to the first wireless medium and the second plurality of filter drivers implement media access control primitives corresponding to the second wireless medium.

22 (Original). A system as defined in Claim 21, wherein the filter chains are operable in a run mode, a stop mode and a pause mode.

23 (Original). A system as defined in Claim 22, wherein the filter manager is operable to dynamically remove filter drivers from, and insert filter drivers into, a filter chain.

24 (Original). An article comprising a machine-readable storage medium containing instructions that, if executed, enable a system to assemble a first filter chain to process a first wireless medium and to assemble a second filter chain to process a second wireless medium.

25 (Original). An article as defined in Claim 24, further comprising instructions that, if executed, enable the system to assemble the first filter chain and to assemble the second filter chain so that the first filter chain comprises a first plurality of filter drivers that implement media access control primitives corresponding to the first wireless medium and the second filter chain comprises a second plurality of filter drivers that implement media access control primitives corresponding to the second wireless medium.

26 (Original). An article as defined in Claim 25, further comprising a machine-readable storage medium containing instructions that, if executed, enable the system remove filter drivers from, and insert filter drivers into, a filter chain.

27 (Original). A method comprising:

assembling a first filter chain to process a first wireless medium.

28 (Currently Amended). A method as defined in Claim 27 [[28]], further comprising:

assembling a second filter chain to process a second wireless medium.

29 (Original). A method as defined in Claim 28, wherein the filter chains are assembled so that the first filter chain comprises filter drivers that implement media access control primitives that correspond to the first wireless medium and the second filter chain comprises filter driver primitives that correspond to the second wireless medium.

30 (Original). A method as defined in Claim 29, further comprising:

removing filter drivers from, and inserting filter drivers into a filter chain.